

What is claimed is:

1. A detection device comprising:
storage means for storing a transmitted signal
5 in a demodulator of a direct sequence CDMA signal;
code generation means for sequentially generating
codes for a candidate for a despreading code;
correlation value obtaining means for reading the
signal stored in the storage unit to be despread by
10 the code; and
detection means for detecting the code used for
the despreading process as a spreading code on a
transmission side, in a case where the correlation
value obtained by the correlation value obtaining
15 means is a maximum or greater than a reference value.
- Sub A17 2. The detection device according to claim 1,
wherein the correlation value obtaining means performs
a despreading process by shifting a phase of the code,
20 and the detection means detects a phase of the code
in a case where the correlation value is a maximum or
greater than a reference value, as a despreading
timing.
- 25 3. The detection device according to claim 1 or

claim 2 wherein the correlation value obtaining means is a matched filter.

4. The detection device according to claim 1 or
5 claim 2 wherein the correlation value obtaining means is a sliding correlator.

5. The detection device according to claim 1 wherein
10 the correlation value obtaining means comprises a matched filter to be used in a case where the length of code is short or part of the code is used, and a sliding correlator to be used in a case where the length of the code is long.

15 6. The detection device according to claim 2 wherein the correlation value obtaining means comprises a matched filter to be used in a case where the length of a code is short or part of the code is used, and a sliding correlator to be used in a case where the
20 length of the code is long.

7. The detection device according to claim 1 wherein
25 the detection device comprises an adder, a memory means for storing an output from the adder, and a feedback path for feeding back an output from the

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comprises a step of detecting a phase of the code as a desreading code in a case where the correlation value is a maximum or greater than a reference value.

- 5 11. The detection method according to claim 9 wherein step (d) comprises a step of totaling the correlation values obtained in step (c) for a plurality of symbols.

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12. A detection device comprising:

storage means for storing a transmitted signal in spread spectrum communication;

code generation means for sequentially generating a code to be a candidate for a desreading code;

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correlation value obtaining means for reading the signal stored in the storage means to be despread by the code by shifting a phase of the code; and

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detection means for detecting a phase of the code used for the desreading process as a desreading code, in a case where the correlation value obtained by the correlation value obtaining means is a maximum or greater than a reference value.

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